(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 20 January 2005 (20.01.2005)

PCT

(10) International Publication Number WO 2005/004616 A1

(51) International Patent Classification7: A23C 19/04, 21/02, 19/06

(21) International Application Number:

PCT/EP2004/007292

(22) International Filing Date: 1 July 2004 (01.07.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 03077072.1

2 July 2003 (02.07.2003)

- (71) Applicant (for all designated States except US): DSM IP Assets B.V. [NL/NL]; Het Overloon 1, NL-6411 TE Heerlen (NL).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): ROOS, De, Andre, Leonardus [NL/NL]; Hof van Azuur 33, NL-2614 TB Delft (NL). DIJK, Van, Albertus, Alard [NL/NL]; Cederdreef 32, NL-3137 PB Vlaardingen (NL). FOLK-ERTSMA, Baukje [NL/NL]; Van Foreestweg 71-1, NL-2614 CD Delft (NL).
- (74) Agents: MATULEWICZ, Emil, Rudolf, Antonius et al.; DSM Intellectual Property, Delft Office (600-0240), P.O. Box 1, NL-2600 MA Delft (NL).

- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: BLEACHING OF DAIRY PRODUCTS

(57) Abstract: The present invention provides a method for bleaching or whitening a dairy product, comprising adding a lipoxygenase (LOX) to the dairy product. The method of the invention may be used to whiten milk, cheese, butter oil, cream or whey products. The invention further provides the use of a LOX to bleach a dairy product and a dairy product whitened by the methods of the invention.